

WHAT IS CLAIMED IS:

1. A conductive elastomer composition comprising a thermoplastic elastomer composition (A) containing a compound (A1) composed of a thermoplastic resin and/or a thermoplastic elastomer and a compound (A2), composed of a crosslinkable rubber and/or a crosslinkable thermoplastic elastomer, dispersed in said compound (A1) by dynamically crosslinking said compound (A2); and

an ionic-conductive agent (B), containing a metal salt and a polyether-containing block copolymer resin, mixed with and dispersed in said thermoplastic elastomer composition (A).

2. The conductive elastomer composition according to claim 1, having a volume resistivity not more than $10^{11} (\Omega \cdot \text{cm})$, when said volume resistivity is measured at an applied voltage of 1000V in a method specified in JIS K6911.

3. The conductive elastomer composition according to claim 1, further comprising carbon black (C) and having a volume resistivity not more than $10^8 (\Omega \cdot \text{cm})$, when said volume resistivity is measured at an applied voltage of 1000V in a method specified in JIS K6911.

4. The conductive elastomer composition according to claim 1, wherein said polyether-containing block copolymer resin contained in said ionic-conductive agent consists of one or more resins selected from among a group of a polyether block amide copolymer resin, a modified substance of a polyether ester amide resin, and a polyether block polyolefin resin.

5. The conductive elastomer composition according to claim 1,

wherein said ionic-conductive agent consists of a composition containing a mixture of a polyether block amide copolymer resin and a polyamide homopolymer and a metal salt.

6. The conductive elastomer composition according to claim 1,
5 containing said ionic-conductive agent (B) at a volume fraction of not less than 8% nor more than 45%.

7. The conductive elastomer composition according to claim 1,
wherein said thermoplastic elastomer composition (A) comprises a
compound (A1) containing a styrene thermoplastic elastomer and/or an
10 olefin resin as a main component thereof; and a compound (A2) dispersed
in said compound (A1) by dynamically crosslinking said compound (A2)
consisting of one or more rubber components selected from among EPDM,
butyl rubber, halogenated butyl rubber, acrylic rubber, BIMS which
is a rubber formed by bromizing a copolymer of isobutylene and
15 p-methylstyrene, fluoro rubber, and silicone rubber.

8. The conductive elastomer composition according to claim 7,
wherein as said styrene thermoplastic elastomer, hydrogenated styrene
thermoplastic elastomer is used.

9. The conductive elastomer composition according to claim 1,
20 wherein said dynamic crosslinking is performed by using a resinous
crosslinking agent.

10. A conductive roller, for use in an electrophotographic
apparatus, formed by the conductive elastomer composition according
to claim 1.

25 11. The conductive roller according to claim 10, wherein said

conductive roller is used as an antistatic paper-feeding roller having a compression set less than 30% when said compression set is measured at a temperature of 70°C for 22 to 24 hours in a method specified in JIS K6262 and a Shore A hardness of not less than 10 nor more than 5 50 and a surface resistivity not more than 10^{11} (Ω) when said surface resistivity is measured at an applied voltage of 1000V in a test method specified in JIS K6911.

12. The method of producing the conductive elastomer composition according to claim 1, wherein before said thermoplastic elastomer 10 composition and said ionic-conductive agent are mixed with each other, said thermoplastic elastomer composition is dynamically crosslinked.